

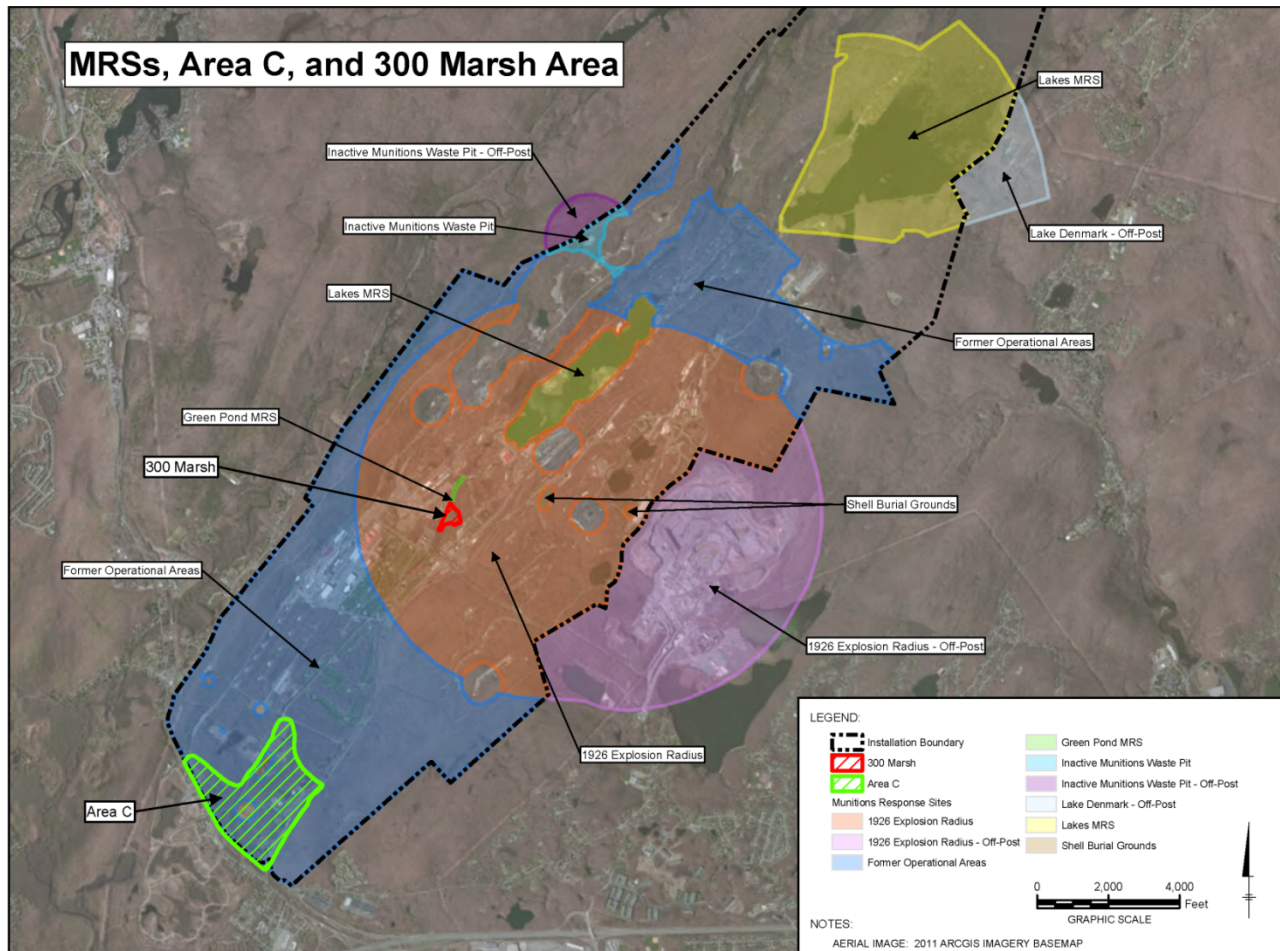


Area C Location

US Army Garrison

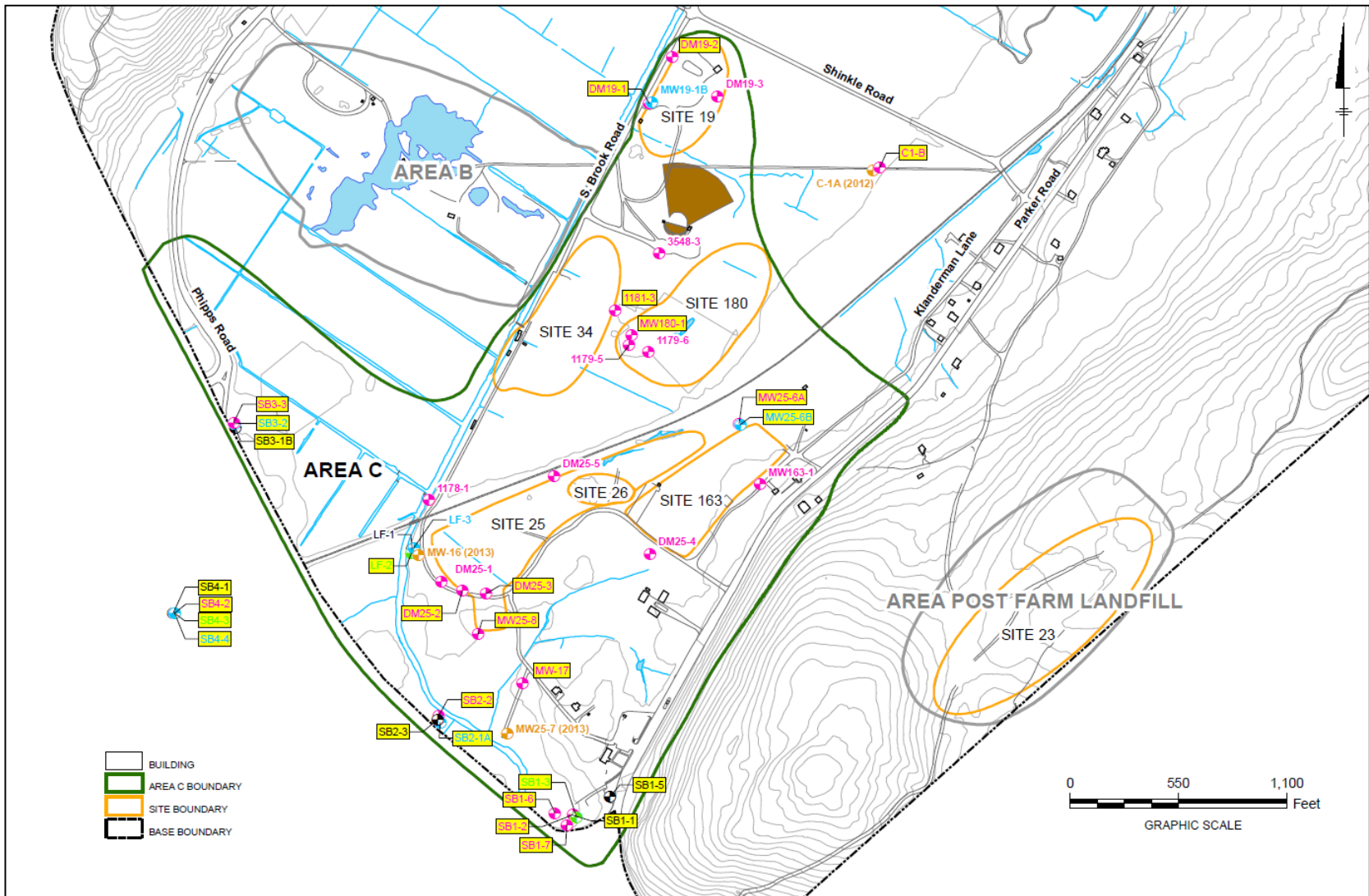


Picatinny Arsenal, NJ





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Area C Groundwater Monitoring

US Army Garrison



Picatinny Arsenal, NJ

- Area C: IRP Site PICA-206.
- ROD signed September 2009; Long term monitoring (LTM) and Land Use Controls (LUC) implemented.
- 2010-2013: Annual inspections and semi-annual groundwater monitoring.
- 2011-2013: Statistical evaluations.
- 2013-2016: Inspection, monitoring and reporting to continue.





Area C Groundwater Monitoring

- Contaminant History
 - VOCs
 - Metals
 - RDX
- LTM Program Exit Strategy
 - Statistical evaluations: re-evaluate monitoring frequency.
 - Remove COCs consistently below Levels of Concern (LOCs).
 - Decommission wells with no COC exceedances above LOC.
- Three statistical evaluations completed; fourth ongoing.



Area C LTM: Status



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- Activities To Date
 - 7 semi-annual monitoring events, 3 statistical evaluations.
 - 4 monitoring wells, numerous analytes removed from program.
- Remaining Analytes
 - Metals: Arsenic, Lead, Nickel, Thallium.
 - VOCs: Vinyl Chloride.
- Conclusions
 - Majority of well/analyte pairs show significant decline or are consistent.
 - Remedy functioning as anticipated.



Area C Lead

SB1-1 and SB1-2 indicate lead slightly above LOC; NJDEP requested additional source investigation.

- Filtered and unfiltered samples collected during recent LTM sampling
 - Unfiltered samples exceeded LOC.
 - Filtered samples less than LOC.
- Conclusions
 - Lead in groundwater associated with suspended particles.
 - Suspended particles sufficiently coarse they are effectively non-transportable (Bailey et al., 2005).



Area C LTM: Future Work



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No Specific Monitoring End Date

- LTM Modifications based on 5-Year Reviews
 - Re-evaluate site conditions
 - Perform statistical evaluation; results used to modify or abandon LTM
 - LTM can be discontinued if:
 - Contaminants not migrating off-site
 - Contaminant concentrations stable or decreasing.
- LUCs continued until regulatory requirements for unrestricted use met
 - Prevent access to and use of groundwater
 - Maintain classification exception area
 - Prohibit excavation without safeguards